

Table 1
 Los Alamos Canyon
 Radioactive Constituents in Storm Water from June 2, 2000 Storm

DRAFT: Data are Preliminary

	Gaging Station	Sample Type	F/U F	Date	Peak Flow (cfs)	Average Flow (cfs)	TSS (mg/L)	⁹⁰ Sr (pCi/L)	σ	⁹⁰ Sr (pCi/g)	¹³⁷ Cs (pCi/L)	σ	¹³⁷ Cs (pCi/g)
E025	Los Alamos Canyon at Los Alamos	Manual	UF	06/03/00	8.6 (gage)	6.8 (gage)	240	4.34	0.83	18.08	5.0	1.2	20.8
E025	Los Alamos Canyon at Los Alamos	Manual	F	06/03/00	8.6 (gage)	6.8 (gage)		3.04	0.59		-0.1	1.5	
	Average (1995 to 1999)		UF					0.50			-0.4		
	Max (1995 to 1999)		UF					0.50			-0.4		
	Average (1995 to 1999)		F					0.70			-0.3		
	Max (1995 to 1999)		F					0.70			-0.3		
E030	LA Canyon below TA-2	Automated	UF	06/02/00	13 (gage)	1.5 (gage)	4500	1.63	0.37	0.36	0.0	0.7	0.0
	Average (1995 to 1999)		UF								1		
	Max (1995 to 1999)		UF								1		
E040	DP Canyon at Mouth	Automated	UF	06/02/00	20 E		3300	23.9	4.3	7.24	14.2	2.5	4.3
	Average (1995 to 1999)		UF					15.4			9.2		
	Max (1995 to 1999)		UF					32.3			22.0		
E042	Los Alamos Canyon near Los Alamos	Automated	UF	06/02/00	18 (gage)		8800	25.2	4.6	2.86	13.9	1.8	1.6
E042	Los Alamos Canyon near Los Alamos	Manual	UF	06/03/00		~2 (gage)	2300	6.8	1.3	2.96	21.8	3.9	9.5
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	UF	06/03/00		~2 (gage)	2300						
E042	Los Alamos Canyon near Los Alamos	Manual	F	06/03/00		~2 (gage)		3.54	0.68		0.2	1.5	
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	F	06/03/00		~2 (gage)							
	Average (1995 to 1999)		UF					12.54			9.1		
	Max (1995 to 1999)		UF					36.76			42.3		
	Average (1995 to 1999)		F					6.26			0.2		
	Max (1995 to 1999)		F					6.26			0.2		
	Background (sediments)									0.87			0.44
	SAL (sediments)									5.90			4.4
	DOE DCG Public Dose							1000			3000		
	DOE DCG Drinking Water Supply							40			120		
	F/UF: filtered/unfiltered												
	σ: uncertainty												
	cfs: cubic feet per second (7.48 gal/sec)												
	SAL: screening action limit												
	dup: analytical laboratory duplicate												

Table 1
Los Alamos Canyon
Radioactive Constituents in Storm Water from June 2, 2000 Storm

DRAFT: Data are Preliminary

	Gaging Station	Sample Type	F/U F	Date	²³⁴ U (pCi/L)	σ	²³⁵ U (pCi/L)	σ	²³⁸ U (pCi/L)	σ	TOTU (pCi/L)	TOTU (pCi/g)	TOTU (ug/L)
E025	Los Alamos Canyon at Los Alamos	Manual	UF	06/03/00	1.45	0.13	0.067	0.0215	1.58	0.14	3.097	12.90	4.46
E025	Los Alamos Canyon at Los Alamos	Manual	F	06/03/00	1.04	0.105	0.041	0.0155	1.09	0.11	2.171		3.13
	Average (1995 to 1999)		UF										0.10
	Max (1995 to 1999)		UF										0.10
	Average (1995 to 1999)		F										0.04
	Max (1995 to 1999)		F										0.04
E030	LA Canyon below TA-2	Automated	UF	06/02/00	3.83	0.3	0.36	0.05	3.46	0.275	7.65	1.70	11.02
	Average (1995 to 1999)		UF										4.3
	Max (1995 to 1999)		UF										4.3
E040	DP Canyon at Mouth	Automated	UF	06/02/00	3.54	0.29	0.258	0.0445	2.28	0.2	6.078	1.84	8.75
	Average (1995 to 1999)		UF										1.2
	Max (1995 to 1999)		UF										3
E042	Los Alamos Canyon near Los Alamos	Automated	UF	06/02/00	7.9	0.65	0.56	0.08	6.2	0.5	14.66	1.67	21.11
E042	Los Alamos Canyon near Los Alamos	Manual	UF	06/03/00	2.55	0.215	0.235	0.042	2.61	0.22	5.395	2.35	7.77
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	UF	06/03/00									
E042	Los Alamos Canyon near Los Alamos	Manual	F	06/03/00	1.06	0.105	0.099	0.0265	1.12	0.11	2.279		3.28
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	F	06/03/00									
	Average (1995 to 1999)		UF										2.9
	Max (1995 to 1999)		UF										8.2
	Average (1995 to 1999)		F										1.2
	Max (1995 to 1999)		F										1.2
	Background (sediments)											3.10	
	SAL (sediments)											20	
	DOE DCG Public Dose												
	DOE DCG Drinking Water Supply												
	F/UF: filtered/unfiltered												
	σ: uncertainty												
	cfs: cubic feet per second (7.48 gal/sec)												
	SAL: screening action limit												
	dup: analytical laboratory duplicate												

Table 1
Los Alamos Canyon
Radioactive Constituents in Storm Water from June 2, 2000 Storm

DRAFT: Data are Preliminary

	Gaging Station	Sample Type	F/U F	Date	²³⁸ Pu (pCi/L)	σ	²³⁸ Pu (pCi/g)	²³⁹ Pu (pCi/L)	σ	²³⁹ Pu (pCi/g)	²⁴¹ Am (pCi/L)	σ	²⁴¹ Am (pCi/g)
E025	Los Alamos Canyon at Los Alamos	Manual	UF	06/03/00	-0.006	0.006	-0.025	0.194	0.032	0.808	0.074	0.017	0.308
E025	Los Alamos Canyon at Los Alamos	Manual	F	06/03/00	0.003	0.006		0.011	0.008		0.021	0.0095	
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>-0.043</i>			<i>-0.028</i>			<i>-0.005</i>		
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>-0.043</i>			<i>-0.028</i>			<i>-0.005</i>		
	<i>Average (1995 to 1999)</i>		<i>F</i>		<i>-0.008</i>			<i>-0.016</i>			<i>-0.016</i>		
	<i>Max (1995 to 1999)</i>		<i>F</i>		<i>-0.008</i>			<i>-0.016</i>			<i>-0.016</i>		
E030	LA Canyon below TA-2	Automated	UF	06/02/00	0.080	0.022	0.018	13.5	1.0	3.000	0.241	0.0325	0.054
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>0.173</i>			<i>3.2</i>			<i>-2.774</i>		
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>0.173</i>			<i>6.3</i>			<i>0.220</i>		
E040	DP Canyon at Mouth	Automated	UF	06/02/00	0.640	0.070	0.194	3.30	0.25	1.000	9.4	0.65	2.848
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>0.150</i>			<i>1.18</i>			<i>3.7</i>		
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>0.645</i>			<i>2.93</i>			<i>14.5</i>		
E042	Los Alamos Canyon near Los Alamos	Automated	UF	06/02/00	0.780	0.085	0.089	10.9	0.8	1.239	10.7	0.7	1.216
E042	Los Alamos Canyon near Los Alamos	Manual	UF	06/03/00	0.074	0.019	0.032	1.26	0.110	0.548	1.15	0.095	0.500
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	UF	06/03/00									
E042	Los Alamos Canyon near Los Alamos	Manual	F	06/03/00	0.018	0.009		0.015	0.010		0.016	0.01	
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	F	06/03/00									
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>0.226</i>			<i>2.468</i>			<i>2.518</i>		
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>1.531</i>			<i>15.778</i>			<i>10.288</i>		
	<i>Average (1995 to 1999)</i>		<i>F</i>		<i>0.022</i>			<i>0.159</i>			<i>3.776</i>		
	<i>Max (1995 to 1999)</i>		<i>F</i>		<i>0.022</i>			<i>0.159</i>			<i>3.776</i>		
	Background (sediments)						0.006			0.023			0.09
	SAL (sediments)						27			24			22
	DOE DCG Public Dose				40			30			30		
	DOE DCG Drinking Water Supply				1.6			1.2			1.2		
	F/UF: filtered/unfiltered												
	σ: uncertainty												
	cfs: cubic feet per second (7.48 gal/sec)												
	SAL: screening action limit												
	dup: analytical laboratory duplicate												

Table 1
Los Alamos Canyon
Radioactive Constituents in Storm Water from June 2, 2000 Storm

DRAFT: Data are Preliminary

	Gaging Station	Sample Type	F/U F	Date	²²⁸ Th (pCi/L)	σ	²³⁰ Th (pCi/L)	σ	²³² Th (pCi/L)	σ	α (pCi/L)	σ	α (pCi/g)	β (pCi/L)	σ	β (pCi/g)
E025	Los Alamos Canyon at Los Alamos	Manual	UF	06/03/00	0.61	0.06	0.77	0.07	0.453	0.0485	14	3	58	45	7	187
E025	Los Alamos Canyon at Los Alamos	Manual	F	06/03/00	-0.025	0.0185	0.089	0.019	0.004	0.0085	2	1		18	3	
	Average (1995 to 1999)		UF								1.2			2		
	Max (1995 to 1999)		UF								1.2			2		
	Average (1995 to 1999)		F								0.6			1		
	Max (1995 to 1999)		F								0.6			1		
E030	LA Canyon below TA-2	Automated	UF	06/02/00	5.67	0.395	3.44	0.25	4.81	0.34	268	43	60	310	47	69
	Average (1995 to 1999)		UF								111			78		
	Max (1995 to 1999)		UF								111			78		
E040	DP Canyon at Mouth	Automated	UF	06/02/00	6.88	0.475	4.18	0.295	6.58	0.455	328	53	99	403	60	122
	Average (1995 to 1999)		UF								74			153		
	Max (1995 to 1999)		UF								172			324		
E042	Los Alamos Canyon near Los Alamos	Automated	UF	06/02/00	13.4	0.9	8.8	0.6	12.9	0.85	570	95	65	930	140	106
E042	Los Alamos Canyon near Los Alamos	Manual	UF	06/03/00	3.06	0.225	2.12	0.16	2.65	0.195	109	18	47	177	26	77
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	UF	06/03/00							81	13	35	157	23	68
E042	Los Alamos Canyon near Los Alamos	Manual	F	06/03/00	-0.016	0.019	0.126	0.024	0.03	0.0145	2	1		19	3	
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	F	06/03/00												
	Average (1995 to 1999)		UF								125			209		
	Max (1995 to 1999)		UF								641			1637		
	Average (1995 to 1999)		F								3			13		
	Max (1995 to 1999)		F								3			13		
	Background (sediments)												1.5			1.5
	SAL (sediments)												14.8			12
	DOE DCG Public Dose										30			1000		
	DOE DCG Drinking Water Supply										1.2			40		
	F/UF: filtered/unfiltered															
	σ: uncertainty															
	cfs: cubic feet per second (7.48 gal/sec)															
	SAL: screening action limit															
	dup: analytical laboratory duplicate															

Table 1
 Los Alamos Canyon
 Radioactive Constituents in Storm Water from June 2, 2000 Storm

DRAFT: Data are Preliminary

	Gaging Station	Sample Type	F/U F	Date	γ (pCi/L)	σ	γ (pCi/g)	Comments
E025	Los Alamos Canyon at Los Alamos	Manual	UF	06/03/00	315	46	1313	Natural uranium
E025	Los Alamos Canyon at Los Alamos	Manual	F	06/03/00	322	46		
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>-26.0</i>			
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>-26.0</i>			
	<i>Average (1995 to 1999)</i>		<i>F</i>		<i>6.0</i>			
	<i>Max (1995 to 1999)</i>		<i>F</i>		<i>6.0</i>			
E030	LA Canyon below TA-2	Automated	UF	06/02/00	257	29	57	slightly enriched (1.6 %) uranium
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>145</i>			
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>145</i>			
E040	DP Canyon at Mouth	Automated	UF	06/02/00	268	30	81	slightly enriched (1.4 %) uranium
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>65</i>			
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>221</i>			
E042	Los Alamos Canyon near Los Alamos	Automated	UF	06/02/00	347	47	39	slightly enriched (1.25 %) uranium
E042	Los Alamos Canyon near Los Alamos	Manual	UF	06/03/00	278	45	121	slightly enriched (1.5 %) uranium
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	UF	06/03/00	278	28	121	
E042	Los Alamos Canyon near Los Alamos	Manual	F	06/03/00	212	28		
E042	Los Alamos Canyon near Los Alamos (dup)	Manual	F	06/03/00	228			
	<i>Average (1995 to 1999)</i>		<i>UF</i>		<i>44</i>			
	<i>Max (1995 to 1999)</i>		<i>UF</i>		<i>142</i>			
	<i>Average (1995 to 1999)</i>		<i>F</i>		<i>63</i>			
	<i>Max (1995 to 1999)</i>		<i>F</i>		<i>63</i>			
	Background (sediments)						0.8	
	SAL (sediments)						8.2	
	DOE DCG Public Dose							
	DOE DCG Drinking Water Supply							
	F/UF: filtered/unfiltered							
	σ : uncertainty							
	cfs: cubic feet per second (7.48 gal/sec)							
	SAL: screening action limit							
	dup: analytical laboratory duplicate							